

# MIL-STD-1474D

MIL-STD-1474D is the current military standard for measuring suppressed firearm sound levels, it is also the standard used by major manufacturer to determine the attenuation in sound.

## MILITARY STANDARD EXPLAINED:

### Meter type, detector, setup and reference locations:

Meter type: Type 1 (high precision)

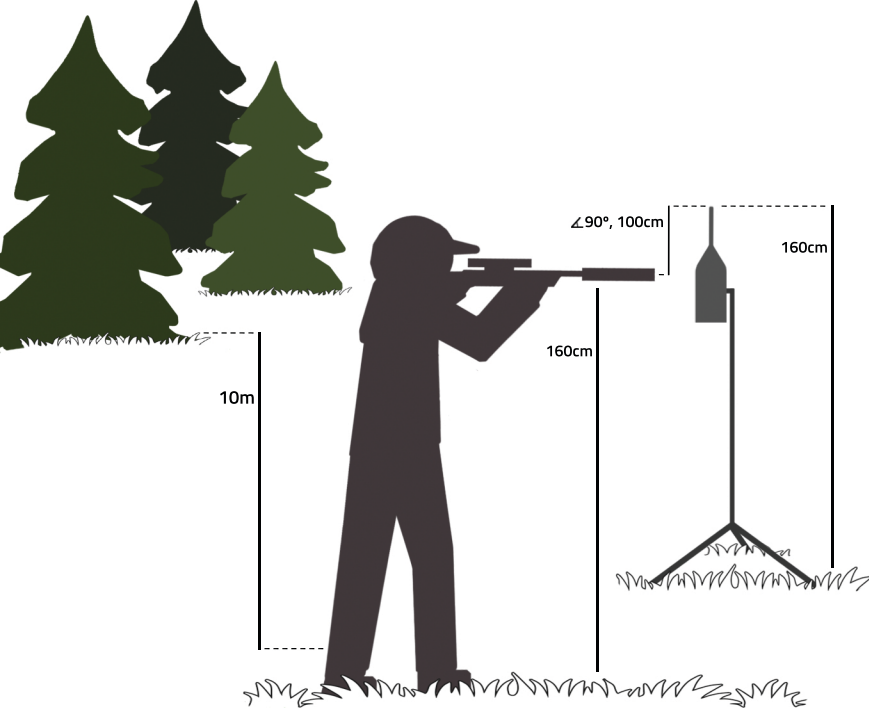
Detector: Peak (recording highest peak of an impulse sound)

### Setup and reference locations:

Location of microphone detector 100 cm to the left of the muzzle, 90° to silencer bore axis, 160cm above grass (ground).

"shooters ear" microphone can be added for addition measurement, 15cm from rifle bore axis at location of shooters head.

Closest distance to sound reflecting object, no closer than 10m.



## Equipment and instruments used by Stalon (according to MIL-STD-1474D)

Meter type: Larson Davis 812 SLM, Digital, High precision (Type 1)

Detector: G.R.A.S 40BH, Peak, High pressure, Range: 54dB to 193dB

Model:	1st round (.308 win):	Average of 4 rounds (.308 win):	Diff. 1st to Average (.308 win):
Stalon X108	-29,6 dBc	-30,2 dBc	0,6 dBc
Stalon X149	-32,1 dBc	-32,6 dBc	0,5 dBc
Stalon XE108	-29,6 dBc	-31,1 dBc	1,5 dBc
Stalon XE149	-34,1 dBc	-34,4 dBc	0,3 dBc
Stalon VICTOR <sup>1</sup>	-21,9 dBc	-26,0 dBc	4,1 dBc
Stalon VICTOR L <sup>2</sup>	-31,9 dBc	-32,4 dBc	0,5 dBc

Rifle used in test: .308 win, 51cm barrel, Hornady 155gr ELD Match: 166,4 dBc (unsuppressed)

Model:	1st round (.22lr):	Average of 4 rounds (.22lr):	Diff. 1st to Average (.22lr):
Stalon RC	-21,4 dBc	-21,8 dBc	0,4 dBc
Stalon RM <sup>3</sup>	-17,6 dBc	-18,4 dBc	0,8 dBc

Rifle used in test: 22 lr, 50cm barrel, CCI standard velocity 40gr, lead round nose: 142,2 dBc (unsuppressed)

<sup>1 2</sup> Stalon VICTOR and VICTOR L are developed to be optimal for smaller calibers, from cal. .222 to 6,5mm, measurements made in .308 are therefore not accurate for this model.

<sup>3</sup> Stalon RM are developed to be optimal for rimfire magnum calibers, such as .22 wmr, .22 Hornet etc., measurements made in .22 lr are therefore not accurate for this model.